

AMENDMENTS TO THE CLAIMS

1. (Original) A black composition comprising as indispensable components a titanium nitride oxide, a resin and a solvent; X-ray intensity ratios R_1 and R_2 represented by the Equations (1) and (2) below, respectively, satisfying the relationships represented by Formulae (3) and (4) below:

$$R_1 = I_3 / \{I_3 + 1.8(I_1 + 1.8I_2)\} \quad (1)$$

$$R_2 = I_2 / I_1 \quad (2)$$

$$R_1 > 0.70 \quad (3)$$

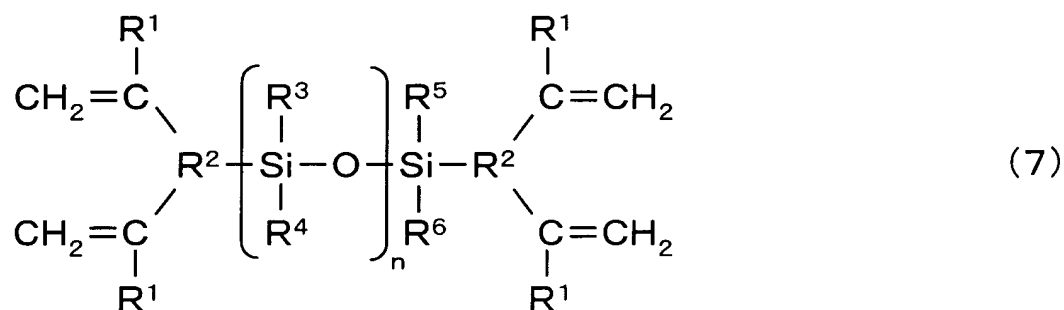
$$0.85 < R_2 < 1.80 \quad (4)$$

wherein I_1 represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction 2θ , determined by using $\text{CuK}\alpha$ line as the X-ray source, is 25° to 26° , I_2 represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction 2θ is 27° to 28° , and I_3 represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction 2θ is 36° to 38° .

2. (Original) The black composition according to claim 1, wherein said X-ray intensity ratio R_1 is not less than 0.80.

3. (Currently Amended) The black composition according to claim 1-~~or~~2, wherein said solvent has a boiling point of 120°C to 180°C , and a viscosity of $3 \text{ mPa}\cdot\text{s}$ to $10 \text{ mPa}\cdot\text{s}$.

4. (Currently Amended) The black composition according to ~~any one of claims 1 to 3~~ claim 1, wherein said resin is at least one selected from the group consisting of an acrylic resin and a polyimide resin.
5. (Currently Amended) The black composition according to ~~any one of claims 1 to 4~~ claim 1, further comprising an organosilane hydrolysis condensate.
6. (Currently Amended) The black composition according to ~~any one of claims 1 to 5~~ claim 1, further comprising a compound having a siloxane bond and a carbon-carbon double bond in a single molecule and having no silanol group.
7. (Original) The black composition according to claim 6, wherein said compound having a siloxane bond and a carbon-carbon double bond in a single molecule and having no silanol group has the structure represented by the following Formula (7):



(wherein each R¹ independently represents hydrogen or alkyl group; each R² independently represents an organic group containing amide bond, imide bond, ester bond or urethane bond; R³ to R⁶ independently represent alkyl group; and n represents an integer of 1 to 3.)

8. (Currently Amended) The black composition according to ~~any one of claims 1 to 7~~ claim 1, wherein the weight ratio of said titanium nitride oxide to said resin is within the range between 75/25 and 60/40.

9. (Currently Amended) The black composition according to ~~any one of claims 1 to 8~~ claim 1, further comprising carbon black.

10. (Currently Amended) A black composition according to ~~any one of claims 1 to 9~~ claim 1, wherein the black coating film obtained from said black composition ~~according to any one of claims 1 to 9~~ has an optical density (OD value) of not less than 4.4 per 1 μm of film thickness, and wherein the minimum exposure energy required for photo-curing is not more than 60 mJ/cm^2 .

11. (Original) A black coating composition comprising as indispensable components a titanium nitride oxide and a resin; X-ray intensity ratios R_1 and R_2 represented by the Equations (1) and (2) below, respectively, satisfying the relationships represented by Formulae (3) and (4) below:

$$R_1 = I_3 / \{I_3 + 1.8(I_1 + 1.8I_2)\} \quad (1)$$

$$R_2 = I_2 / I_1 \quad (2)$$

$$R_1 > 0.70 \quad (3)$$

$$0.85 < R_2 < 1.80 \quad (4)$$

wherein I_1 represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction 2θ , determined by using $\text{CuK}\alpha$ line as the X-ray source, is 25° to 26° , I_2 represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction 2θ is 27° to 28° , and I_3 represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction 2θ is 36° to 38° .

12. (Original) The black coating composition according to claim 11, wherein said X-ray intensity ratio R_1 is not less than 0.80.

13. (Currently Amended) The black coating composition according to claim 11 ~~or 12~~, wherein said resin is at least one selected from the group consisting of an acrylic resin and a polyimide resin.

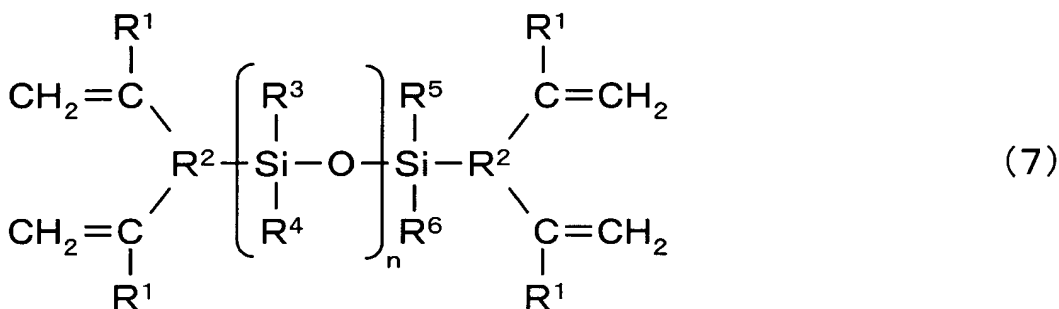
14. (Currently Amended) The black coating composition according to ~~any one of claims 11 to 13~~ claim 11, wherein the weight ratio of said titanium nitride oxide to said resin is within the range between 75/25 and 60/40.

15. (Currently Amended) The black coating composition according to ~~any one of claims 11 to 14~~ claim 11, which has an optical density (OD value) of not less than 4.4 per 1 μm of film thickness.

16. (Currently Amended) The black coating composition according to ~~any one of claims 11 to 15~~ claim 11, wherein the transmittance of i-ray when the optical density (OD value) is 2.0 is more than 0.2%.

17. (Currently Amended) The black coating composition according to ~~any one of claims 11 to 16~~ claim 11, further comprising a compound having a siloxane bond and a carbon-carbon double bond in a single molecule and having no silanol group.

18. (Original) The black coating composition according to claim 17, wherein said compound having a siloxane bond and a carbon-carbon double bond in a single molecule and having no silanol group has the structure represented by the following Formula (7):



(wherein each R^1 independently represents hydrogen or alkyl group; each R^2 independently represents an organic group containing amide bond, imide bond, ester bond or urethane bond; R^3 to R^6 independently represent alkyl group; and n represents an integer of 1 to 3.)

19. (Currently Amended) The black coating composition according to ~~any one of claims 11 to 18~~ claim 11, further comprising carbon black.

20. (Currently Amended) A resin black matrix obtained from said black coating composition according to ~~any one of claims 11 to 19~~ claim 11.

21. (Original) A color filter for liquid crystal displays, which color filter comprises said resin black matrix according to claim 20.

22. (Original) A liquid crystal display comprising said color filter for liquid crystal displays, according to claim 21.